SUBSTITUTE ABSTRACT OF THE DISCLOSURE

The swirling type micro-bubble generating system according to the present invention possesses a container main unit having a cylindrical space with bottom or a frusto-conically shaped space, a liquid inlet provided in a tangential direction on a part of a circumferential surface of an inner wall of said space, a gas introducing hole provided on the bottom of said cylindrical space or opening of said frusto-conically shaped space, and a swirling gas-liquid mixture outlet arranged at the opposite end of said cylindrical space or opening of said frusto-conically shaped space. According to this system, it is possible to readily generate micro-bubbles in an industrial scale, and the system is relatively small in size and has simple structure and can be easily manufactured. The system can be used in applications such as purification of water quality in ponds, lakes, marshes, man-made lakes, rivers, etc., for processing of polluted water using microorganisms, culture of fishes and other aquatic animals, and increase of oxygen and dissolved oxygen in culture solution in hydroponics culture farm and improvement of production yield.